

Capitolato per reometro rotazionale (Dynamic Shear Rheometer) con holder customizzabile per prove tribologiche

MODULAR COMPACT RHEOMETER

- Fully compliant with bitumen test methods according to: AASHTO, ASTM, AGPT, DIN EN, FGSV and GOST
- Dynamic Shear Rheometer with electronically commutated - permanent magnet synchronous motor with high-precision air bearing
- integrated 360° capacitive normal force sensor (50 N) and high-resolution optical encoder
- technology for automatic recognition of measuring geometries and accessories and storing of zero-gap
- quick connect coupling for one-hand exchange of measuring geometries within a second
- trimming mirror for 360° view of the sample to avoid sample-preparation errors
- feature detects sample temperature equilibration
- lift motor with automatic gap control and automatic gap setting for automatic compensation of gap changes related to temperature and normal force
- display with remote control of software for minimized preparation time
- sample-adaptive controller in rotation
- sample-adaptive controller in oscillation
- software option master curve (time temperature superposition)
- software templates and updates for all relevant asphalt standards
- fully automatic temperature calibration
- air dryer with air filter unit, to separate oil, particle and condensate with fine filter 0.3 µm and micro filter 0.01 µm
- dew point at outlet: - 40 °C
- volume rate at outlet: 75 l/min
- working pressure: 0.5 to 10 bar
- Sistemi di termostatazione peltier temperature device (plate)
- temperature range: -50°C to 220°C
- plate with active temperature control (heating/cooling)
- for cone/plate and parallel plate measuring geometries

- with universal plate holder (screw-on thread) for use of measuring plates (also disposable) and other accessories
- with automatic tool recognition and configuration
- installation in the rheometer through three-point support without the risk of misalignment
- maximized torsional stiffness due to constructional torque support
- peltier temperature device (hood)
- temperature range -50°C to 220°C
- hood with active temperature control (heating/cooling)
- for cone/plate and parallel plate measuring geometries
- active illumination of the measuring area through integrated LEDs
- minimum sample temperature gradients (according to AASHTO T315/ASTM D7175)
- with automatic tool recognition and configuration
- for use in combination with temperature device (plate)
- connection kit for fluid circulators to connect a fluid circulator to the rheometer. Includes all necessary hoses and connections.
- screw-on lower measuring plate
- diameter: 8 mm
- material: hard anodized aluminium
- suitable for all temperature devices with external thread
- with serial number for the rheometer
- without groove
- screw-on lower measuring plate
- Diameter: 25 mm
- Material: stainless steel
- Suitable for temperature devices with external thread
- With groove on the outer edge, prevents run off of excess material
- Usable with an evaporation blocker heated hood
- measuring plate PP08 D: 8 mm
- measuring plate PP25 D: 25 mm
- measuring cone CP25-4 D: 25 mm; angle 4°
- rheometer software professional
- more than 100 predefined and customizable measurement templates (apps)

- available in 8 languages (English, German, Chinese, Japanese, French, Portuguese, Spanish, Polish)
- central database handles all relevant data, guarantees data security, and enables server/client functionality
- countless analysis methods for routine and advanced data analysis
- full automation possible (from preparation to printout of results)
- automatic data exchange with lab information management system
- complete pharma package including audit trail and electronic signature for full compliance with QM-regulations like GLP/GMP, 21 CFR Part 11, and ALCOA+ with full data integrity
- multi software license including one rheometer driver
- upgradeable for the operation of several rheometers
- running under Microsoft Windows 10 or 11
- rheometer software raw data
- tribology measuring cell
- Peltier temperature control from -40 °C to 200 °C
- Normal forces between 1 N and 50 N
- Incl. sample holder for plates
- Incl. sample holder for cylindrical pins 6 mm
- Incl. measuring system shaft for ½" ball
- Incl. sample plate PTFE, 100 pcs.
- Incl. sample plate steel, 30 pcs.
- Incl. steel ball 1.4401 with ½" diameter, 30 pcs.
- Incl. steel ball 100Cr6 with ½" diameter, 10 pcs.
- Incl. sample pin 100Cr6 with 6 mm diameter, 30 pcs.
- measuring systems, holders and specimen are available on request
- circulation thermostat -20...200°C; +/-0.03K; 230V/50-60Hz
- trasporto
- installazione
- Tempo di consegna: 4-6 settimane dopo la ricezione dell'ordine.
- Luogo di consegna: Univerisità Politecnica delle Marche, Dipartimento DICEA, Laboratorio di Strade e Trasporti, via Brecce Bianche 12 – 60131 Ancona
- garanzia di 3 anni

